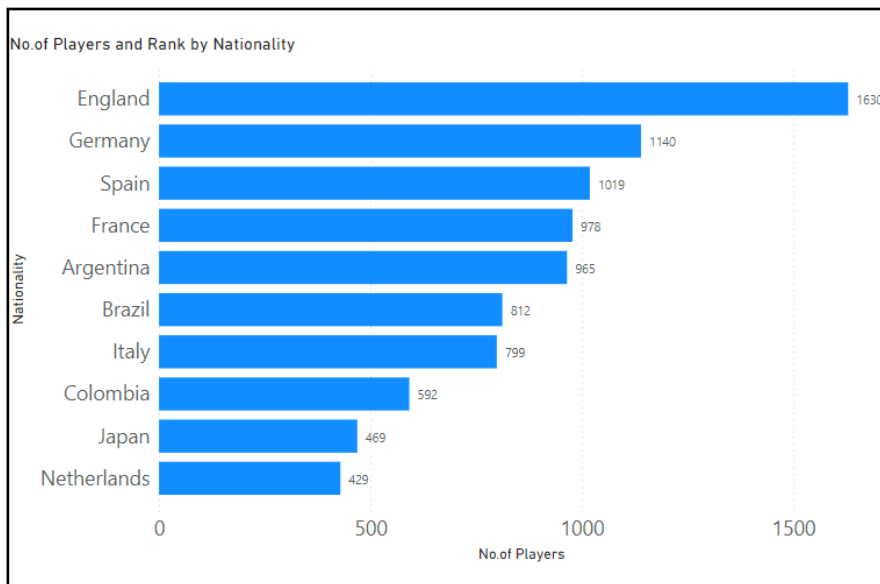# Power BI –Assignment (FIFA Players)
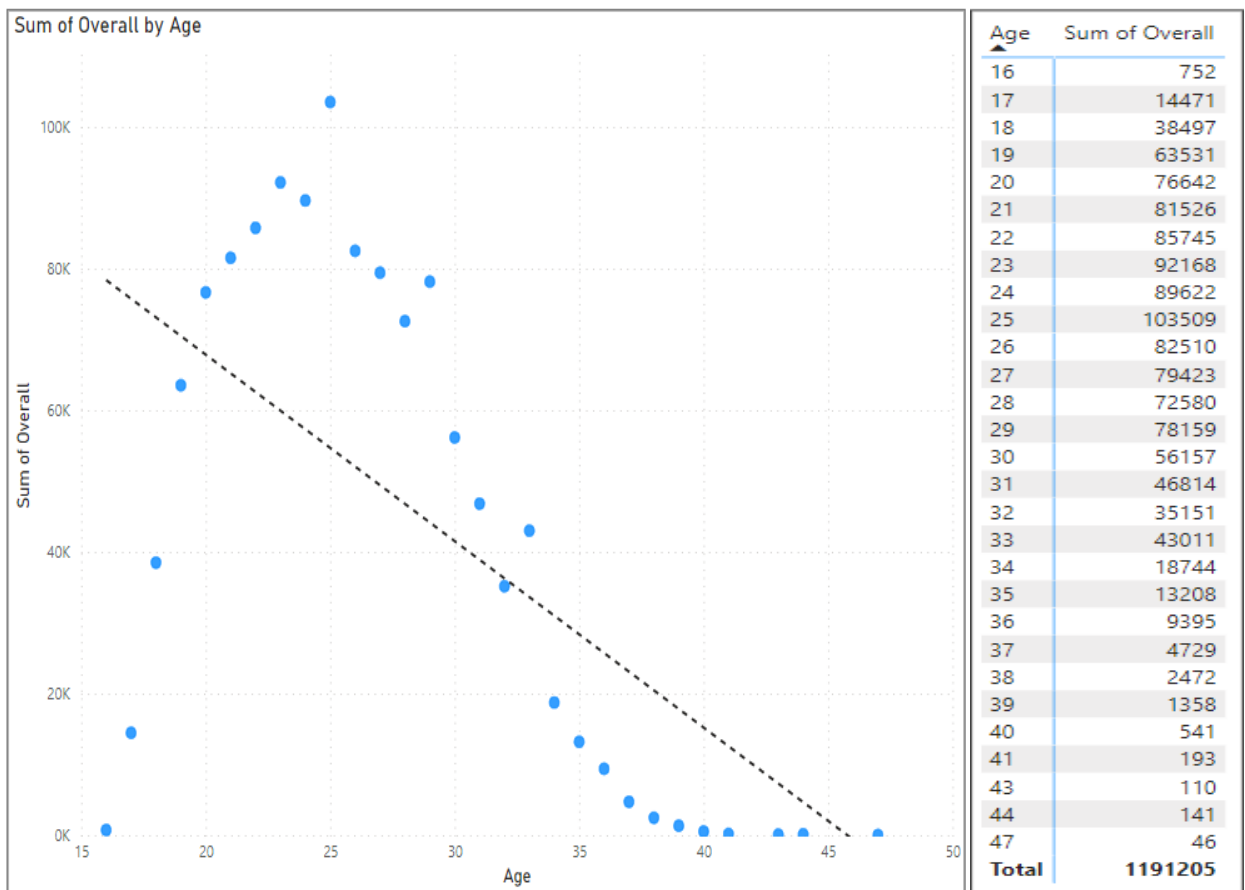
Name: Panagam Mohitha

1. Prepare a rank ordered list of top 10 countries with most players. Which countries are producing the most numbers of footballers that plays at this level?

- England, Germany, and Spain occupies the top 3 positions in producing more number of players by producing little over 1000 players.
- France, Argentina, Brazil, Italy, Colombia takes the next positions by producing more than 500 players.

No.of Players and Rank by Nationality

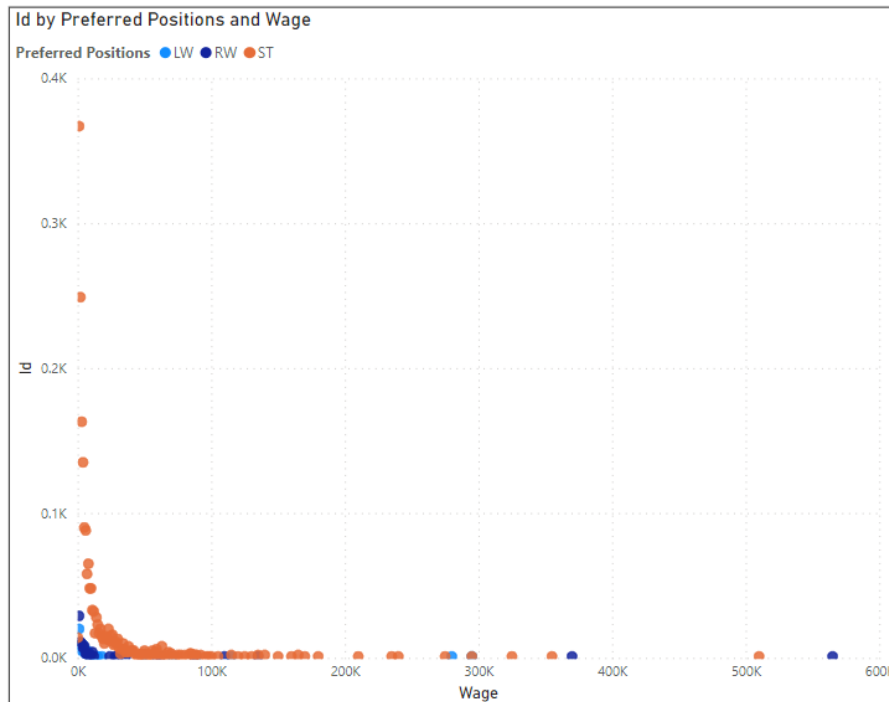| Rank	Nationality	No.of Players
1	England	1630
2	Germany	1140
3	Spain	1019
4	France	978
5	Argentina	965
6	Brazil	812
7	Italy	799
8	Colombia	592
9	Japan	469
10	Netherlands	429

2. Plot the distribution of overall rating vs. age of players. Interpret what is the age after which a players stops improving?

- The overall rating gradually increases from age 16 to age 25.
- The overall rating is peak at age of 25 with sum of overall rating as over 10k.
- Later from age 25 it took south and at age 29 and 33 it got a little pushup but no longer it begins to decrease drastically with the increase of age of players.

Sum of Overall by Age

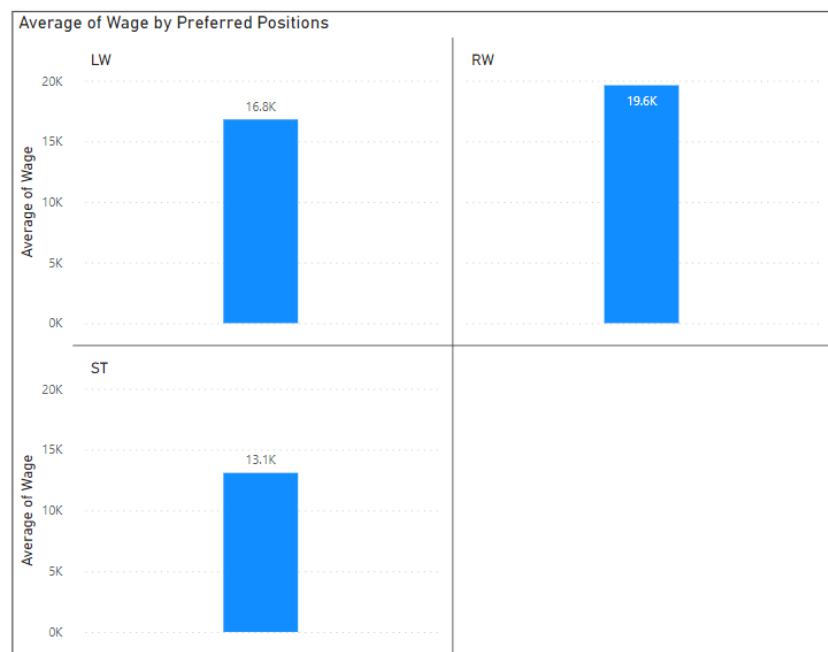| Age	Sum of Overall
16	752
17	14471
18	38497
19	63531
20	76642
21	81526
22	85745
23	92168
24	89622
25	103509
26	82510
27	79423
28	72580
29	78159
30	56157
31	46814
32	35151
33	43011
34	18744
35	13208
36	9395
37	4729
38	2472
39	1358
40	541
41	193
43	110
44	141
47	46
Total	**1191205**

3. Which type of offensive players tends to get paid the most: the striker, the right-winger, or the left-winger? Visualize through a scatter plot
   - ST striker has paid most individually but in terms of average of the wages Striker occupies the last place. Right winger gets paid most in the terms of the average wage of player.
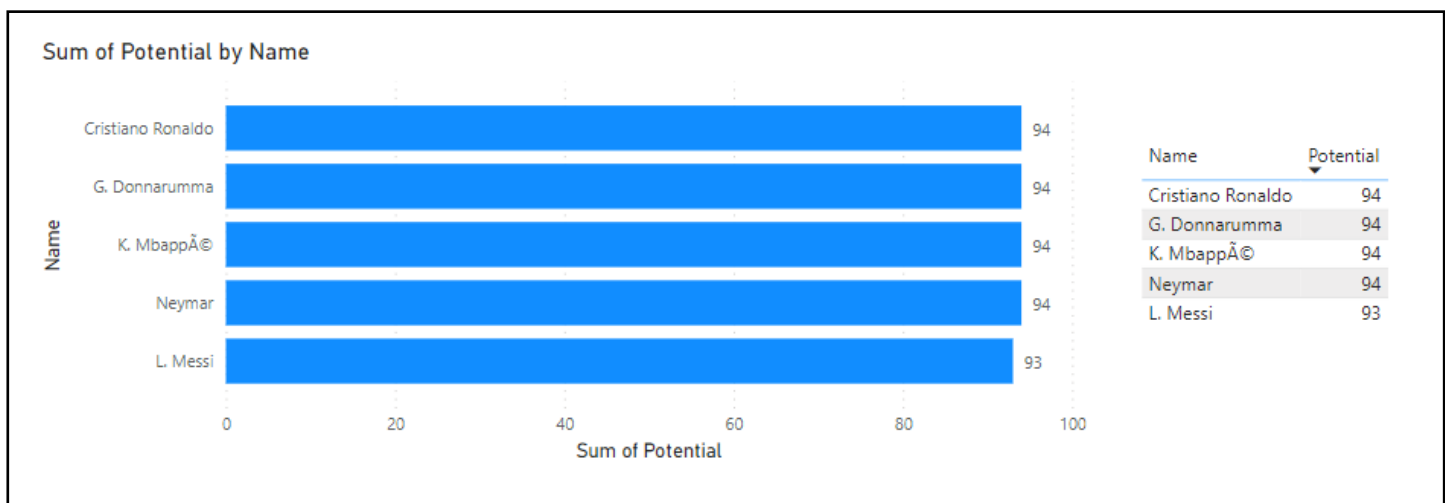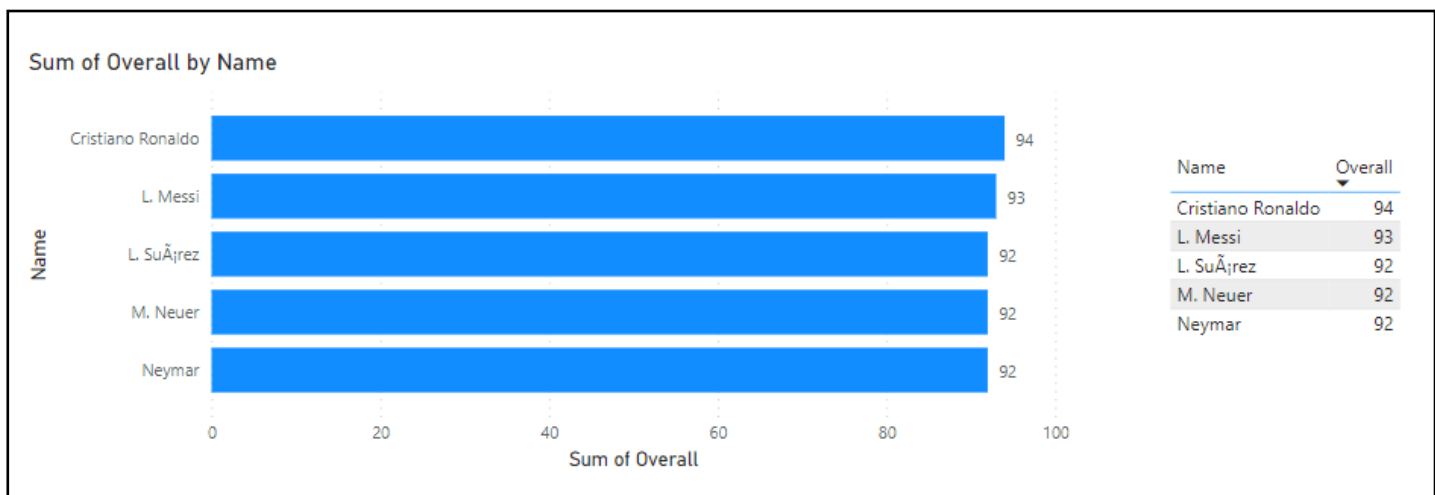
Id by Preferred Positions and Wage

Preferred Positions ● LW ● RW ● ST

Preferred Positions	Id	Wage
ST	1847	23995000
RW	91	1786000
LW	73	1227000
Total	**2011**	**27008000**

Average of Wage by Preferred Positions

Preferred Positions	Id	Wage
ST	1847	23995000
RW	91	1786000
LW	73	1227000
Total	**2011**	**27008000**

4. Top 5 players for every preferred position in terms of overall as well as potential points. Who were the best in 2018? Who were destined to be the future superstars in that year?

- Cristiano Ronaldo, Messi, Neymar are the destined future superstars in terms of both the overall points as well as potential points.
- Others like suajrez, Neuer,Mbappa, Donnarumma are preferred in either in terms of overall or in the potential points but these seven players are destined to be future superstars in the year 2018.

Sum of Overall by Name

Name	Overall
Cristiano Ronaldo	94
L. Messi	93
L. SuÃ¡rez	92
M. Neuer	92
Neymar	92

Sum of Potential by Name

Name	Potential
Cristiano Ronaldo	94
G. Donnarumma	94
K. MbappÃ©	94
Neymar	94
L. Messi	93

5. Which club(s) have the maximum share of players from England? Which club(s) have the maximum share of players from Spain? Which club(s) have the maximum share of players from Germany?

- In England, Bolton Wanderers and Shrewsbury has maximum share of players.
- CA Osasuna has 27 players makes the club with highest number of players in Spain.
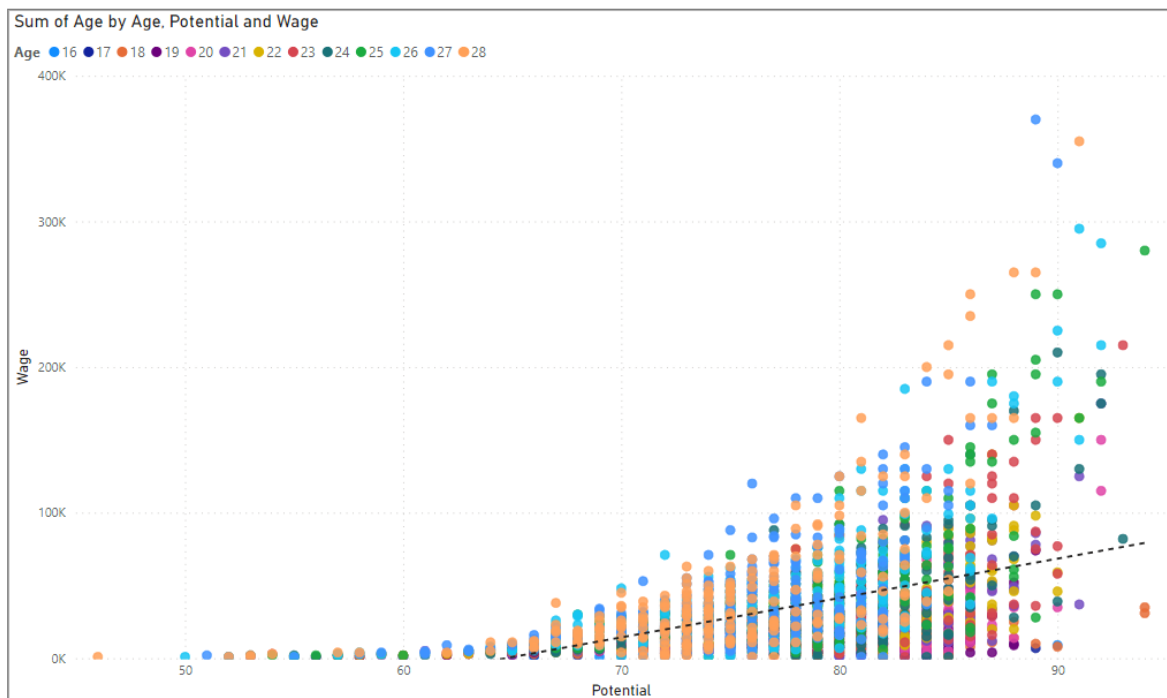- Holstein Kiel topped the list of having maximum number of players in Germany.

Club	No.of Players
CA Osasuna	27
Athletic Club de Bilbao	26
Lorca Deportiva CF	25
Real Valladolid	25
UD Las Palmas	25
CD Lugo	24
FC Barcelona B	24
Levante UD	24
RCD Espanyol	24
Real Sociedad	24
Real Sporting de GijÃ³n	24
SD Eibar	24
CÃ³rdoba CF	23
CD Numancia	23
AD AlcorcÃ³n	22
CÃ¡diz C.F.	22
CD Tenerife	22
Deportivo AlavÃ©s	22
Real Zaragoza	22
Sevilla AtlÃ©tico	22
Albacete BalompiÃ©	21

Nationality
- ☐ England
- ☐ Germany
- ■ Spain

Club	No.of Players
Holstein Kiel	26
SSV Jahn Regensburg	23
1. FC Magdeburg	23
Chemnitzer FC	23
FC Carl Zeiss Jena	23
FSV Zwickau	23
Hallescher FC	23
Karlsruher SC	23
SpVgg Unterhaching	23
SV Meppen	23
FC Erzgebirge Aue	22
SC Paderborn 07	22
Sportfreunde Lotte	22
VfL Bochum	22
1. FC Heidenheim	21
Hansa Rostock	21
SC Freiburg	21
SC PreuÃŸen MÃ¼nster	21
SG Dynamo Dresden	21
VfL OsnabrÃ¼ck	21
DSC Arminia Bielefeld	20

Nationality
- ☐ England
- ■ Germany
- ☐ Spain

Club	No.of Players
Bolton Wanderers	24
Shrewsbury	24
Burton Albion	22
Chesterfield	22
Colchester United	22
Exeter City	22
Mansfield Town	22
Port Vale	22
Portsmouth	22
Bradford City	21
Doncaster Rovers	21
Ipswich Town	21
Lincoln City	21
AFC Wimbledon	20
Barnet	20
Barnsley	20
Bournemouth	20
Fleetwood Town	20
Millwall	20
Morecambe	20
Oxford United	20

Nationality
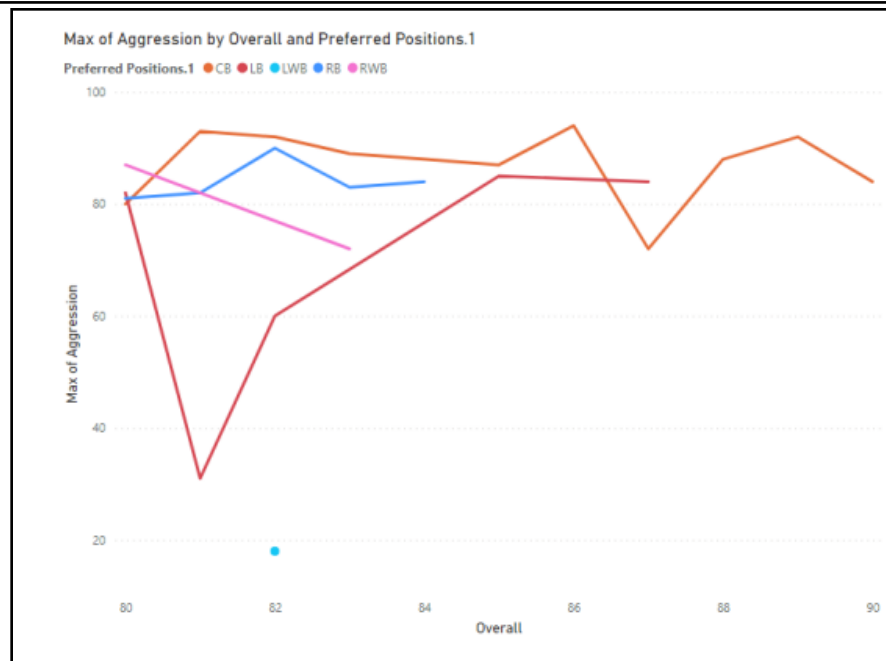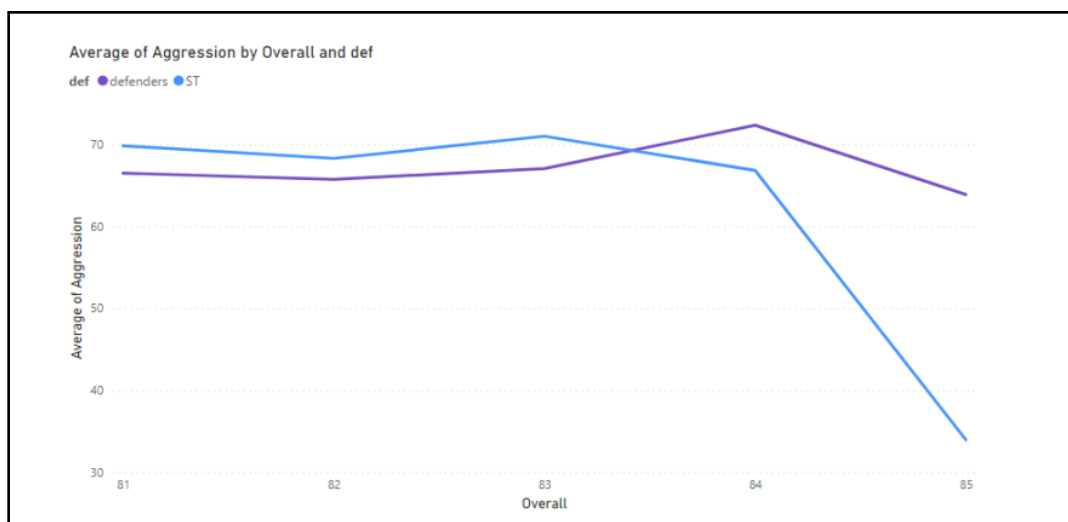- ■ England
- ☐ Germany
- ☐ Spain

6. Are the wages of a player influenced by the potential of a player? Check it out for players with age Between 16 to 28?

- We can see players with potential points between 70-90 has increase in wage compared to the players with less than 70 points.
- But there is no direct relation between the wages and potential since players with potential points in the range of 70-90 has wages less than 100k.
- One more thing can be noticed that the players with potential points more than 90 has higher wages compared to all other players.
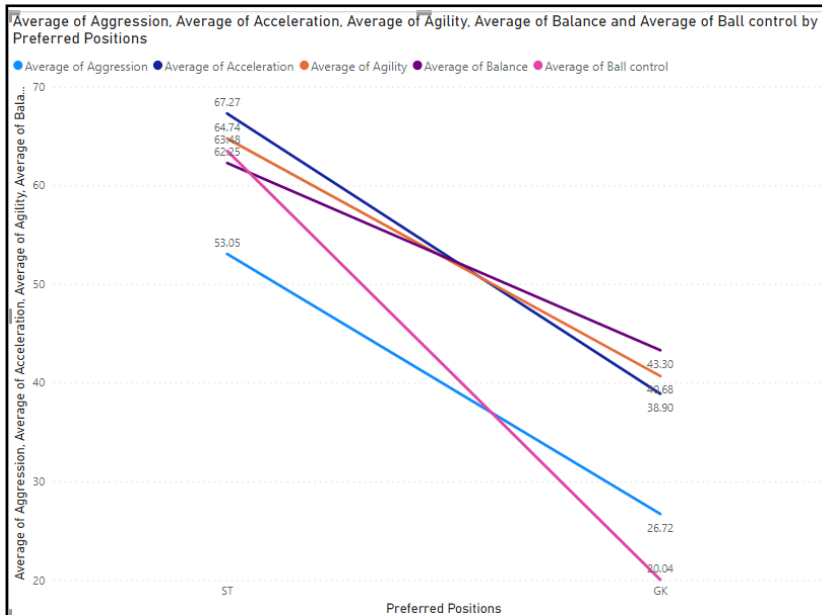

Sum of Age by Age, Potential and Wage

7. Do Strikers score higher on "Aggression" than defenders do? Group both the set of players (from an overall score of 80 to 85) and compare their average aggression levels. Which particular position has the highest aggression as a given (players with an overall score of 80 to 90)?
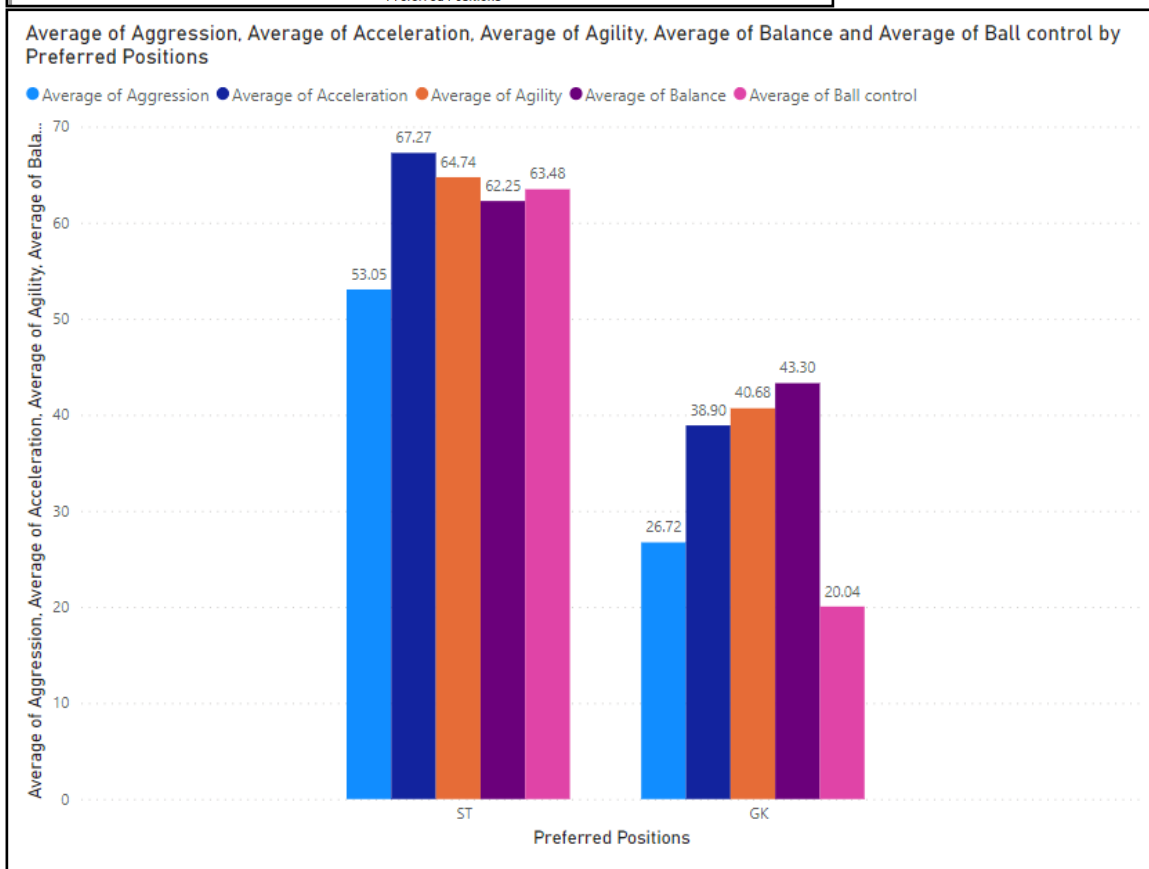
- We can see that the strikers score higher that defenders (LB, RB, CB, RWB, LWB) do up to an overall of 83.2 but later on the defenders scored higher on aggression after overall crossed 83.2. But defenders goes like from low to rise but the strikers curve is steep low.

Average of Aggression by Overall and def

def ● defenders ● ST

Max of Aggression by Overall and Preferred Positions.1

Preferred Positions.1 ● CB ● LB ● LWB ● RB ● RWB

8. How based on the positional data, players are profiled for different roles/classes. Plot Aggression, Acceleration, Agility, Balance and Ball Control for strikers and Goal Keepers in a single line/Bar plot to understand the positional difference
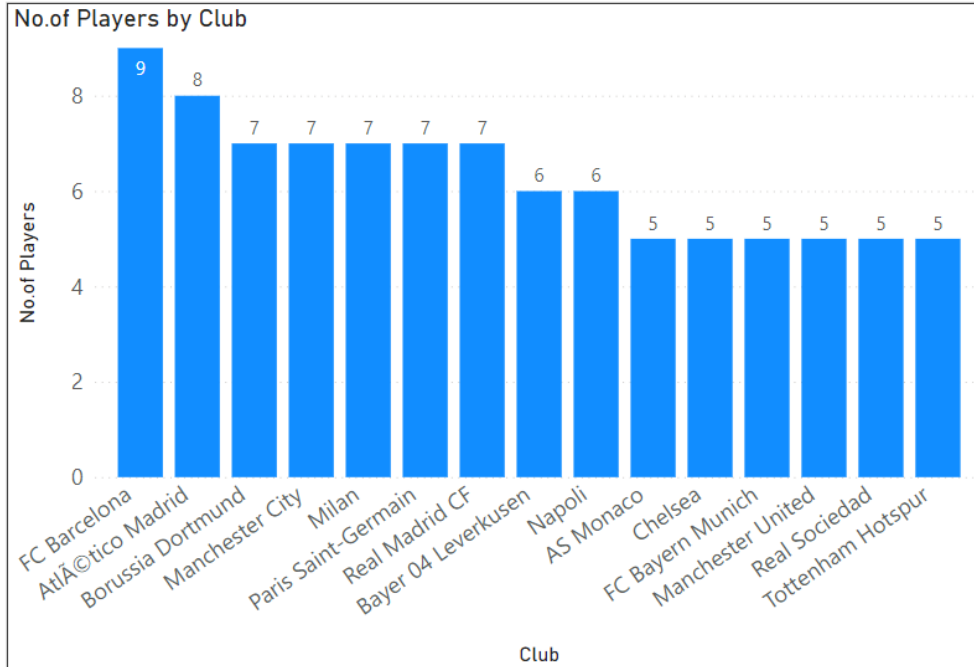

- As we can observe that there is significant difference between the averages of Goal keeper and striker in each and every attribute.

9. Which clubs consists of the best future players? Consider only the players with Overall = 86, plot a graph to show which are the top 10 clubs with most number of best future players

- FC Barcelona has 9 best future players that make it to the top.
- Followed by Madrid, Borussia and Manchester city.

Club	No.of Players
FC Barcelona	9
AtlÃ©tico Madrid	8
Borussia Dortmund	7
Manchester City	7
Milan	7
Paris Saint-Germain	7
Real Madrid CF	7
Bayer 04 Leverkusen	6
Napoli	6
AS Monaco	5
Chelsea	5
FC Bayern Munich	5
Manchester United	5
Real Sociedad	5
Tottenham Hotspur	5
Total	**94**